

03050105-140

(Bullock Creek)

General Description

Watershed 03050105-140 is located in York County and consists primarily of **Bullock Creek** and its tributaries. The watershed occupies 75,801 acres of the Piedmont region of South Carolina. The predominant soil types consist of an association of the Wilkes-Cecil-Goldston-Badin series. The erodibility of the soil (K) averages 0.22, and the slope of the terrain averages 13%, with a range of 2-45%.

Land use/land cover in the watershed includes: 76.6% forested land, 15.2% agricultural land, 7.0% scrub/shrub land, 0.6% barren land, 0.4% urban land, and 0.2% water.

Bullock Creek originates near the South Carolina/North Carolina border and accepts drainage from Gin Branch, Rocky Branch, Buckhorn Creek (Silver Creek), and Clark Fork. Clark Fork also originates near the state line and flows through Lake Crawford to join Jennings Branch and forms Lake York before accepting drainage from Biggers Branch and Saltlick Branch. Downstream of Clark Fork, Bullock Creek accepts drainage from Thompson Branch, Berry Branch, Purgatory Branch, Mitchell Branch, Plexico Branch, Loves Creek, and Bells Creek (Prater Branch, Dowdle Branch). There are a few ponds and lakes (totaling 161.4 acres) in this watershed and 123.2 stream miles, all classified FW. Kings Mountain State Park extends over the upper portion of the watershed along with Kings Mountain National Military Park.

Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
B-739	BIO	FW	BULLOCK CREEK AT S-46-40
B-325	S	FW	CLARK FORK INTO CRAWFORD LAKE NEAR SC 161 & 705
B-737	W	FW	LAKE YORK IN KINGS MOUNTAIN STATE PARK
B-326	S	FW	LONG BRANCH ON SC 216, BELOW KINGS MOUNTAIN PARK REC. AREA
B-157	BIO	FW	CLARK FORK AT S-46-63
B-159	S	FW	BULLOCK CREEK AT SC 97, 4.8 MI S OF HICKORY GROVE

Bullock Creek - There are two monitoring sites along Bullock Creek. At the upstream site (**B-739**), aquatic life uses are fully supported based on macroinvertebrate community data. At the downstream site (**B-159**), aquatic life uses are fully supported. Recreational uses are not supported at this site due to fecal coliform bacteria excursions, compounded by a significant increasing trend in fecal coliform bacteria concentrations.

Lake York (B-737) - Lake York, located in Kings Mountain State Park, is a 50-acre impoundment on Clark Fork. Lake York's maximum depth is approximately 13 feet (4.0 m); average depth is 9 feet (2.7 m). The lake's watershed comprises approximately 0.8 square miles (2 km²) in North and South Carolina. In an effort to provide access for swimming and boating, triploid grass carp were stocked in 1985, 1987, and 1993; and aquatic herbicides were applied in 1995. Aquatic life and recreational uses are fully supported.

Long Branch (B-326) - Aquatic life uses are fully supported; however, there is a significant increasing trend in total phosphorus concentration. Significant decreasing trends in five-day biochemical oxygen demand and turbidity suggest improving conditions for these parameters. Recreational uses are fully supported.

Clark Fork - There are two monitoring sites along Clark Fork. At the upstream site (**B-325**), aquatic life uses are fully supported. There is a significant decreasing trend in pH. Significant decreasing trends in five-day biochemical oxygen demand and turbidity suggest improving conditions for these parameters. Recreational uses are fully supported at this site. At the downstream site (**B-157**), aquatic life uses are fully supported based on macroinvertebrate community data.

Crawford Lake - Crawford Lake is located in Kings Mountain State Park. In an effort to provide public access for swimming and boating in Crawford Lake, triploid grass carp were stocked in 1985, 1987, and 1992; and aquatic herbicides were applied from 1990-1995. Recent efforts to clear access for boating and swimming include continuing to apply aquatic herbicide from 1996-1998, and again in 2000.

Natural Swimming Areas

<i>FACILITY NAME</i>	<i>PERMIT #</i>
<i>RECEIVING STREAM</i>	<i>STATUS</i>
KINGS MOUNTAIN STATE PARK	46-N07
LAKE CRAWFORD	ACTIVE

NPDES Program

Active NPDES Facilities

<i>RECEIVING STREAM</i>	<i>NPDES#</i>
<i>FACILITY NAME</i>	<i>TYPE</i>
<i>PERMITTED FLOW @ PIPE (MGD)</i>	<i>LIMITATION</i>
LONG BRANCH	SC0025275
US PARK SERVICE/KINGS MTN NATL MIL PARK	MINOR INDUSTRIAL
PIPE #: 001 FLOW: 0.0095	WQL FOR DO,TRC,NH3N

Nonpoint Source Management Program

Land Disposal Activities

Land Application Sites

<i>LAND APPLICATION SYSTEM</i>	<i>ND#</i>
<i>FACILITY NAME</i>	<i>TYPE</i>
SPRAYFIELD	ND0080748
G & W INC.	INDUSTRIAL

Mining Activities

<i>MINING COMPANY</i>	<i>PERMIT #</i>
<i>MINE NAME</i>	<i>MINERAL</i>
YORK COUNTY	1220-91
BIGGERS #2 MINE	SAND/CLAY

Growth Potential

There is a low potential for growth in this watershed, which contains portions of the Towns of Hickory Grove, Smyrna, and Sharon. Public water service is limited to Hickory and Sharon. Although the area is largely rural, residential activity is increasing as a result of the close proximity to the Town of Clover, the City of York, and the Greater Charlotte Metropolitan Area.